



***Tech Transition for Warfighter
Capabilities In a New World***



ACTD Program Overview

For

4th International Acquisition/Procurement
Seminar

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Technology Transition Challenges

**Get new, relevant technology to the warfighter
quickly**

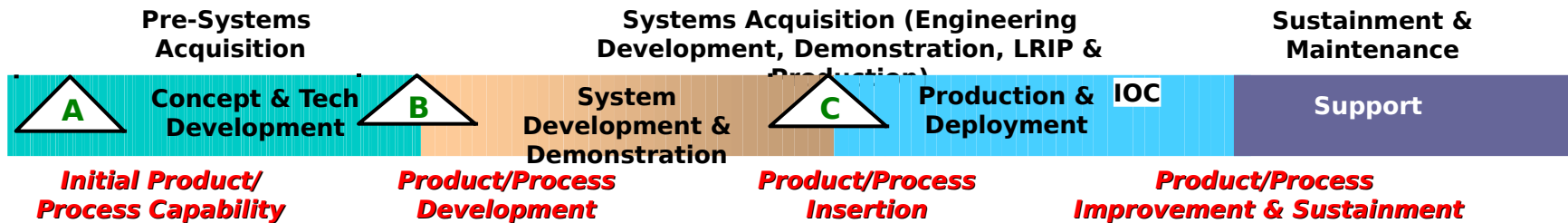
**Overcome institutional resistance to
transformational concepts**

**Assist warfighters to integrate technologies into
doctrine**



Technology Transition Programs

Transition Across the Product / Process Life Cycle



Foreign Competitive Testing

ACTDs

Dual Use Science & Technology - DUS&T

Independent Research & Development *

Advanced Technology Insertion Initiative

Manufacturing Technology - ManTech

Title III of the Defense Production Act

Technology Transfer

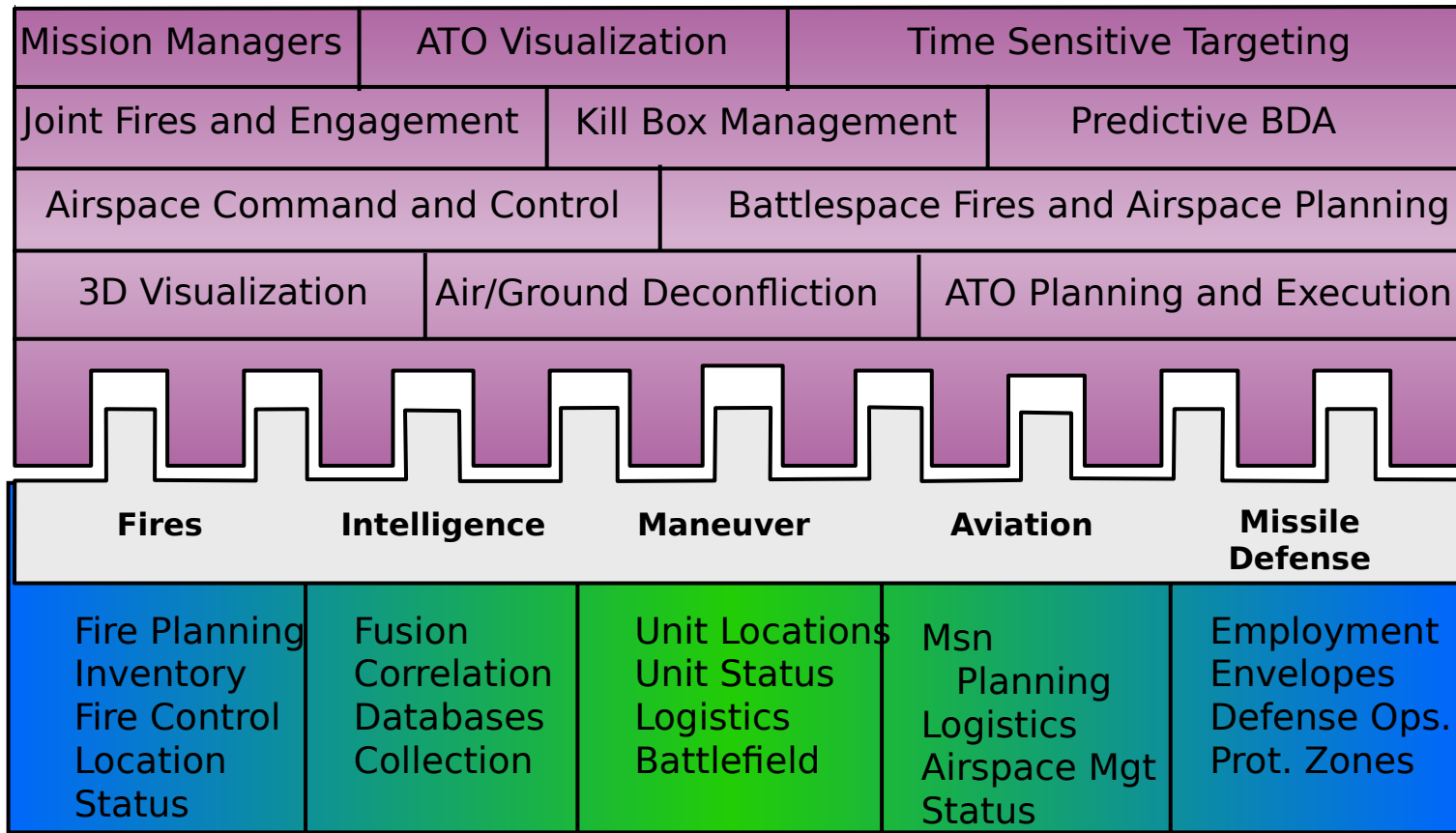
ACTD Roles in Tech Transition

- **Promote joint requirements lacking service “critical mass”**
- **Demonstrate military utility for established communities**
- **Mitigate risk**
 - Try before buy
- **Provide rapid prototypes of leap-ahead technologies**
 - Accelerate transition by testing technical solutions & concepts
- **Introduce warfighters to hands-on, mature technologies**
 - Spur concurrent development of CONOPS & system requirements
 - Overcome institutional reluctance

ACTD Anatomy

- Addresses an important military need with a **mature technology**
- Provides a technical solution with demonstrated CONOPS
- Evaluates solution in field demonstrations by warfighters
- Usually **joint**, often combined/coalition
- Multi-agency
 - Developer Service /Agency: Technical Manager
 - Sponsoring CINC: Operational Manager
 - Lead Service/Agency (Title 10 Authority): Transition Manager
- **Rapid**: 1-5 Years - or less - to Final Demonstration/Prototype
 - 2 Years of Support for Residuals and Transition
- Multiple Funding Sources
 - OSD routinely provides 10-30% funding

Integration Across Joint Capabilities



JWCAs

**JSCP
Areas**

**Some pivotal joint capabilities lack “Critical Mass”
within any one service mission area**

ACTD Objectives

Formal Success Objectives

- ***Transition to Service-sponsored Program of Record***
- ***Satisfy operational requirement with residuals***
- ***Confirm technology appropriate/inappropriate for military use***

Informal Success Objectives

- ***Develop CONOPS/Op Requirements employing ACTD technologies***
- ***Contribute technical elements into existing/new programs***

Informal Failure Indicators

- ***Overlook technologies to solve known military problems***
- ***Allow spiraling technologies/requirements to postpone transitions***
- ***Pursuing low risk technologies to ensure successful demonstrations***
- ***Focus on popular single-service ACTDs at expense of tough joint efforts***

FY02 ACTD Program

FY02 New ACTDs

- ***15 with Joint Staff mission need determination & funded***
- ***3 with Joint Staff mission need determination;***
 - ***Awaiting service/defense agency funding confirmation***
- ***12 of 18 are Counter Terrorism capabilities***

FY02 Continuing Program

- ***67 on-going ACTDs***
- ***Plan to bring 18 to completion in FY02***
- ✓ ***40+ ACTDs - Internal Review for post 9/11 Relevance***

FY03 ACTD Program

FY03 ACTDs

- ***16 with Joint Staff mission need validated***
- ***5 of 16 require additional funding through fiscal year***
- ***All 16 will aid Homeland Defense and Counter Terrorism efforts***
- ***Service Agency Partnering***
 - ***DISA, DARPA, NSA, USA, MDA, HLS, NIMA, USAF, NVL, USN***
- ***Unified Combatant Commander Partnering***
 - ***SPACECOM, JFCOM, CENTCOM, SOUTHCOM, TRANSCOM, SOCOM, PACOM***

FY04 ACTD Program

Candidates Submission Guidance

- ***Deliberate support of Defense organizational goals***
- ***Transition emphasis to joint capabilities***
- ***Rapidly deliver relevant technologies & operational concepts***
- ***Develop strong and clear ACTD partnership plans***
- ***Pursue commercial and **coalition** partnerships***
- ***Objectively & accurately assess technical risks and projected costs***
- ***Integrate efforts with complementing programs***

ACTD Program Goals

Improve ACTD Process

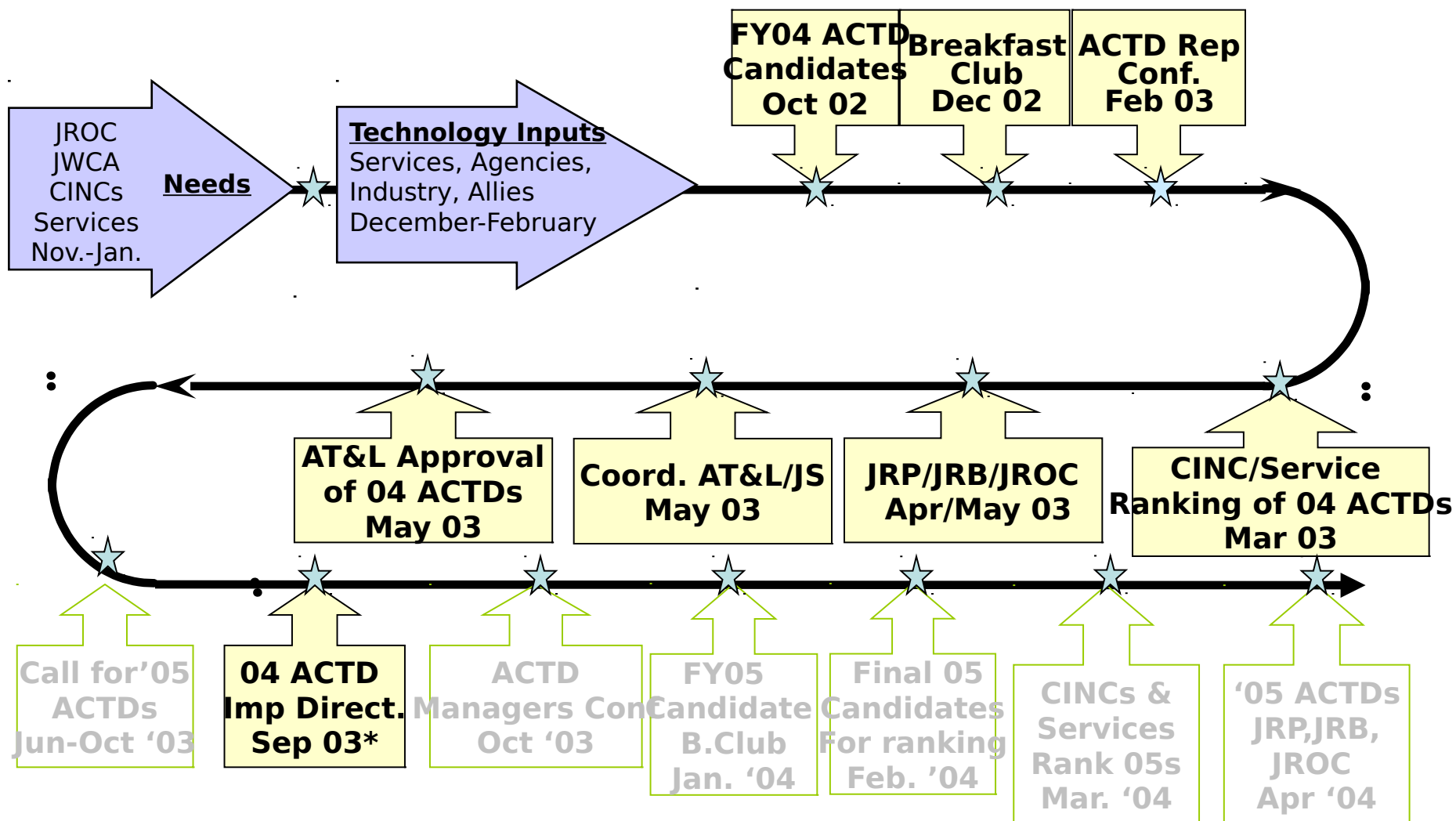
- ***Conduct internal/external reviews & GAO survey***
- ***Encourage Service participation in joint capability ventures***
- ***Establish roadmap for ACTD support of joint capability architectures***
- ***Establish formal ties with key coalition demonstration programs***
- ***Experiment with Defense - industry ACTDs***

Speed Delivery of Prototypes to Warfare Commanders

- ***Accelerate ACTD selection process in FY02***
- ***Align process with service POM schedule to improve transitions***

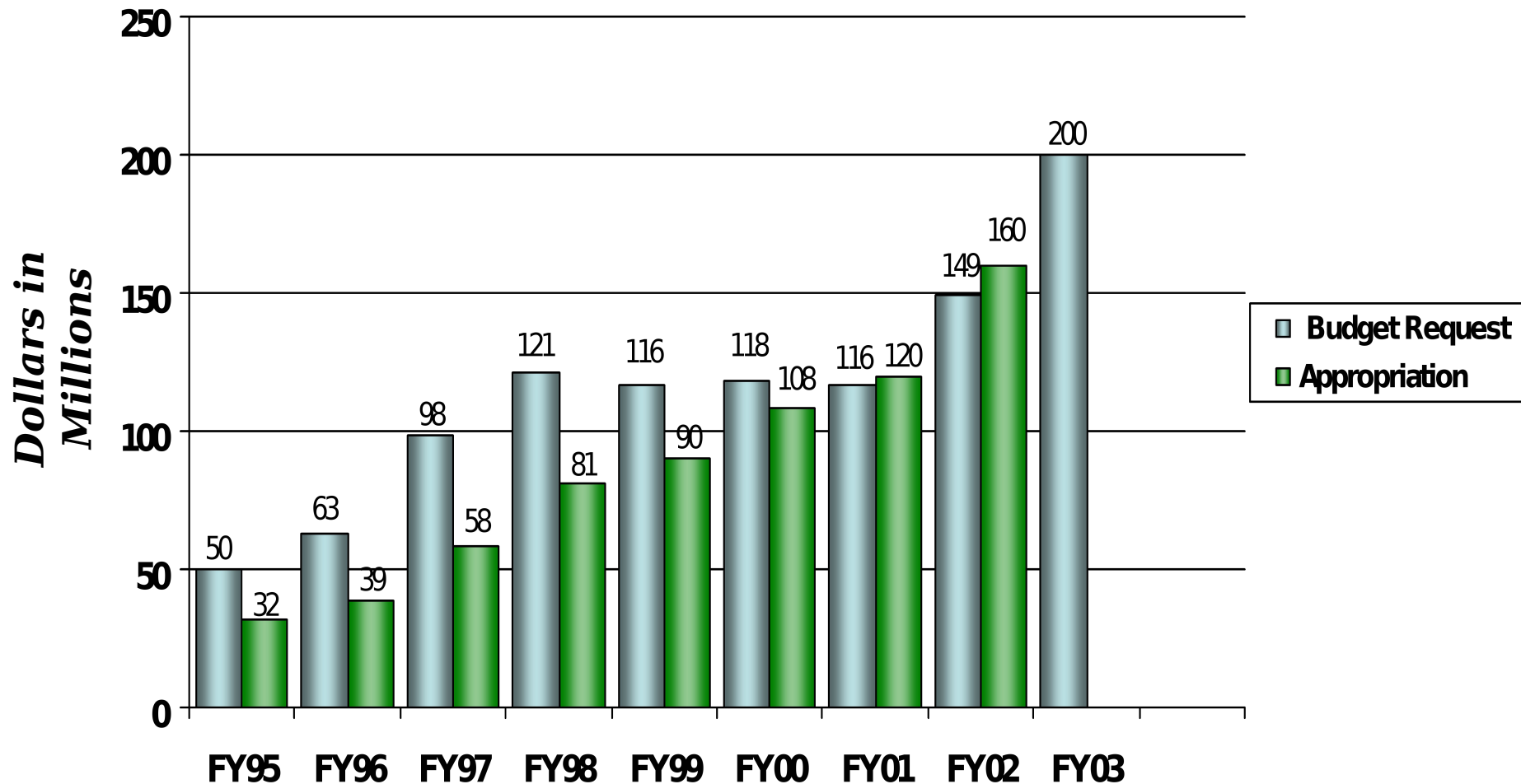
FY03 ACTD Selection Process

(FY04 Candidates)

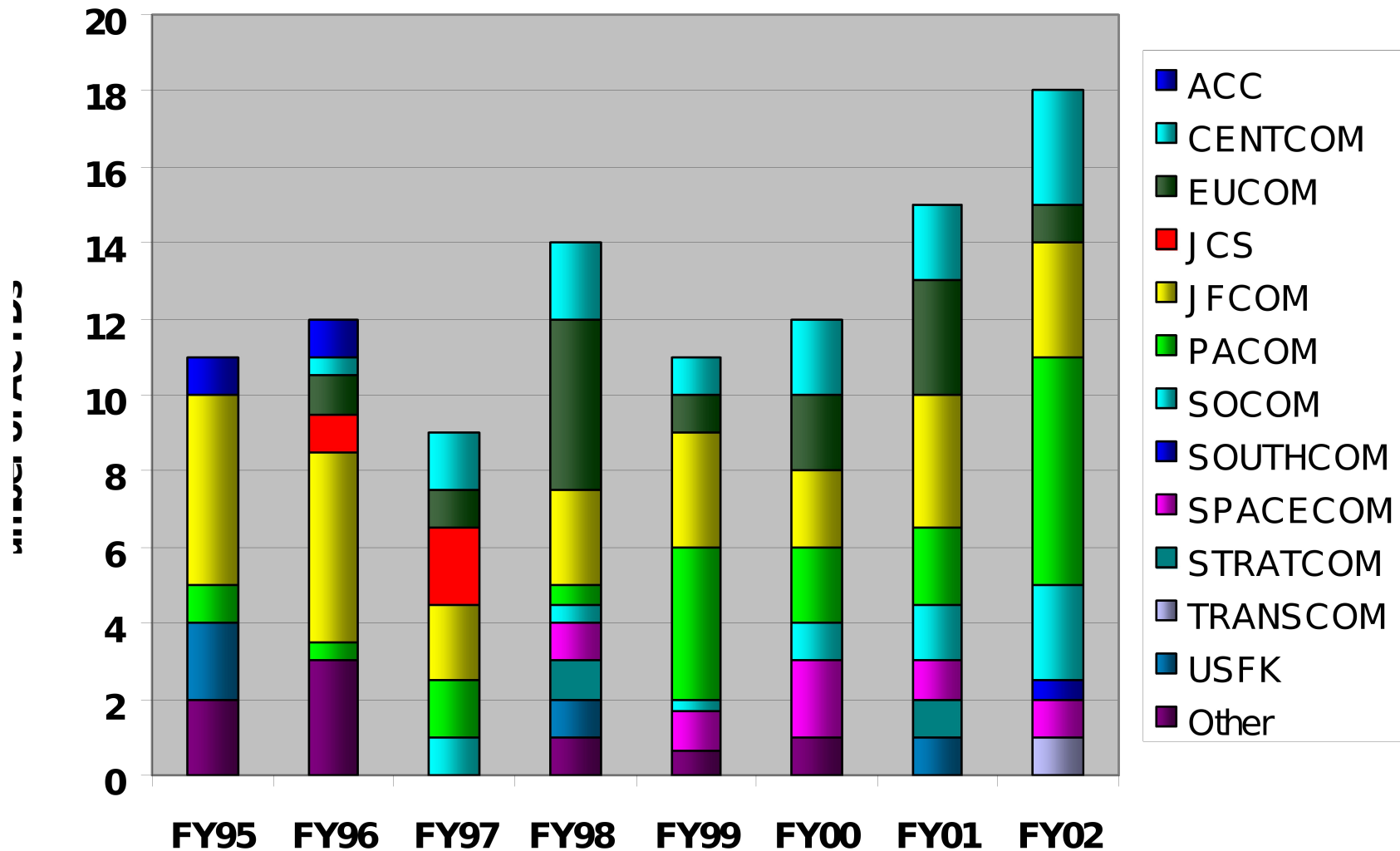


* Services will know JROC approved ACTDs in time for Service '05 POM Process

ACTD Funding Profile



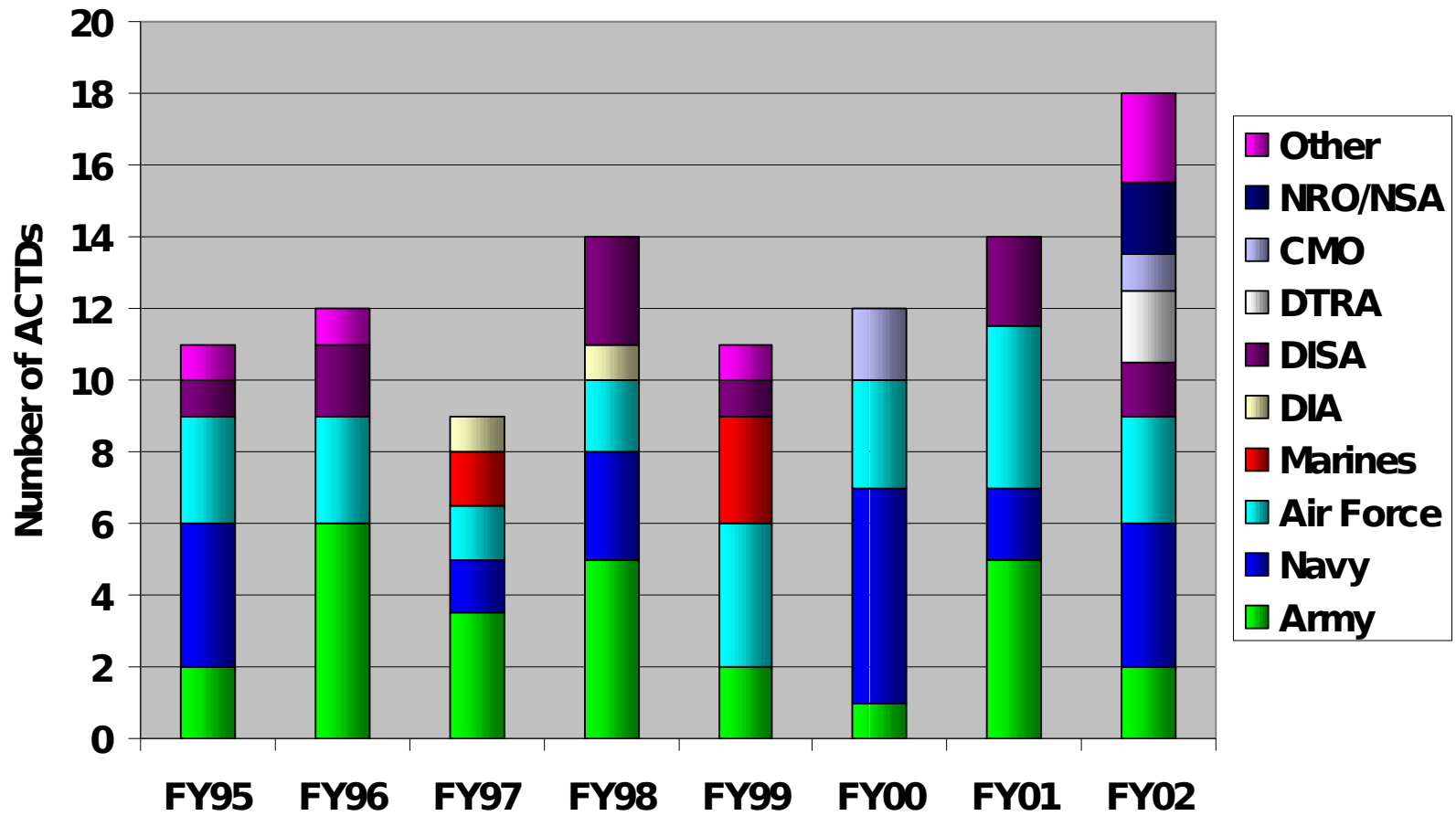
ACTD User Sponsor





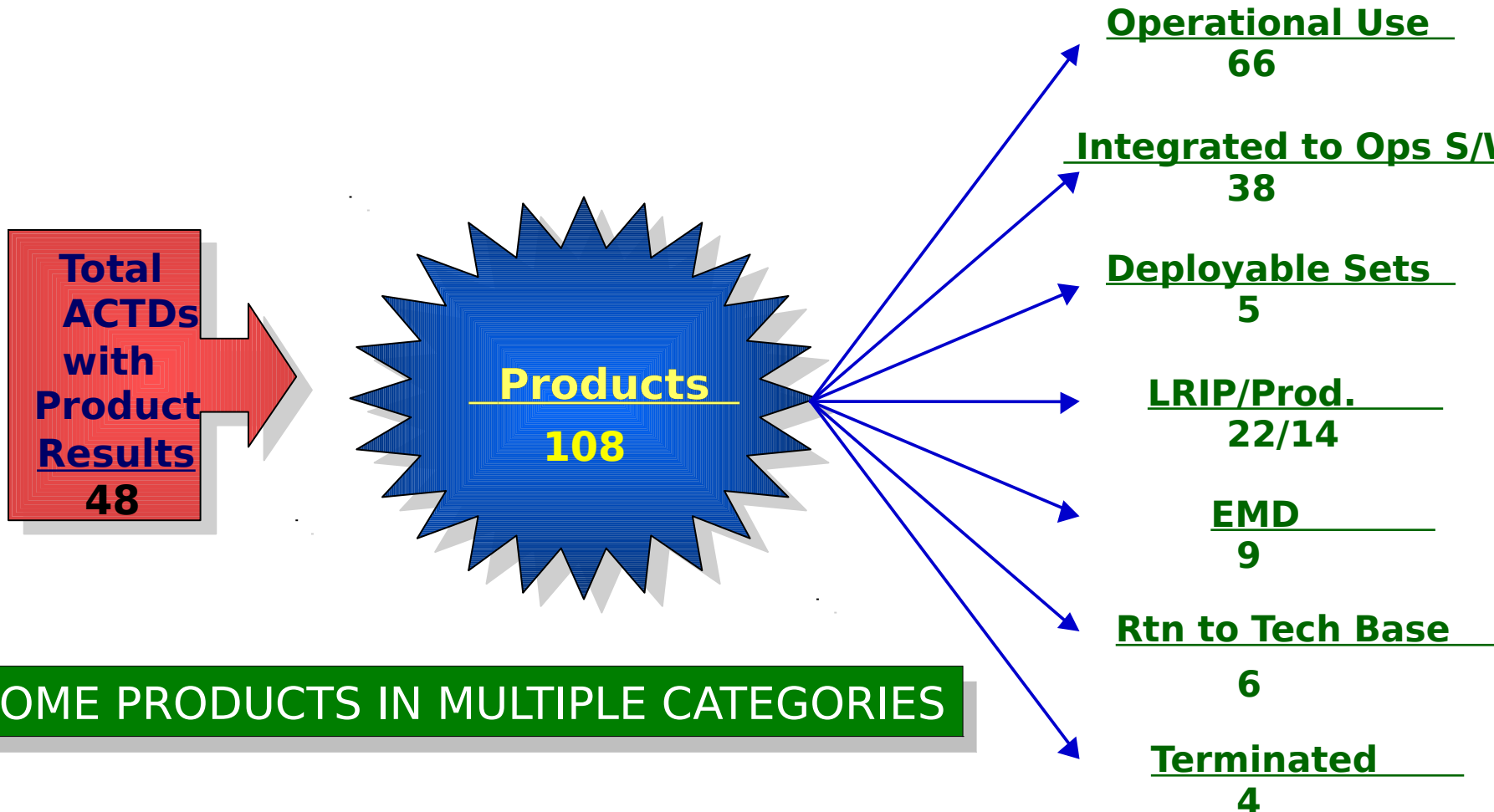
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ACTD Lead Service/Agency



Service / Agency is Responsible for Driving the Acquisition Decision

Total ACTD Product Status

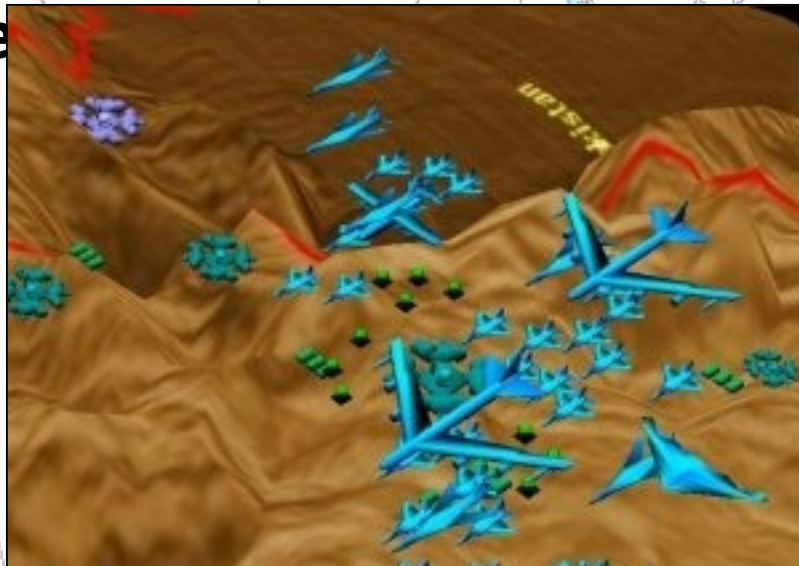


Counter Terrorism

ACTDs in Enduring Freedom/Noble Eagle

- ***ACTDs in Use in EF/NE - 30***
- ***ACTDs in Preparation for EF/NE - 2***

ACTD Plans accelerated



AS&C Technology Transition Tools

Technology transition programs can work in harmony or independently but they all share a common goal - to accelerate the best technologies available to the warfighter into residual capabilities, acquisition programs and ongoing sustainment.

Commercial Opportunities/Industry IR&D

Gvt. Lab/DARPA, DTRA, DISA, NIMA etc. Technologies

Dual Use Tech
Development

Technology Transfer

Technology Insertion

ACTDs

**Military Utility for Joint
Warfighter Capabilities**

Manufacturing Hurdles

Manufacturing Technology

Title III Program

Foreign Opportunities

Foreign Comparative Testing

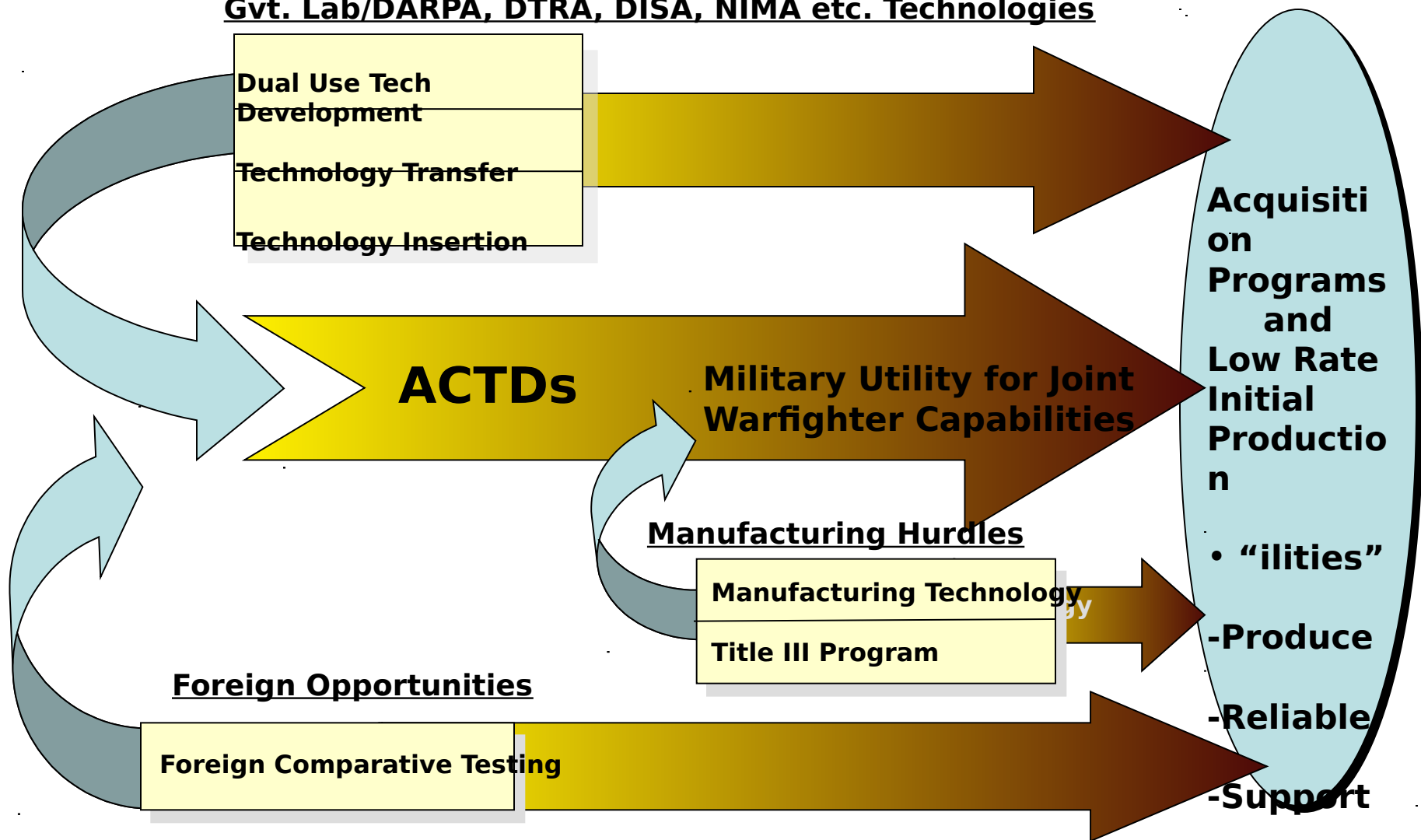
**Acquisition
Programs and
Low Rate
Initial
Production**

• “ilities”

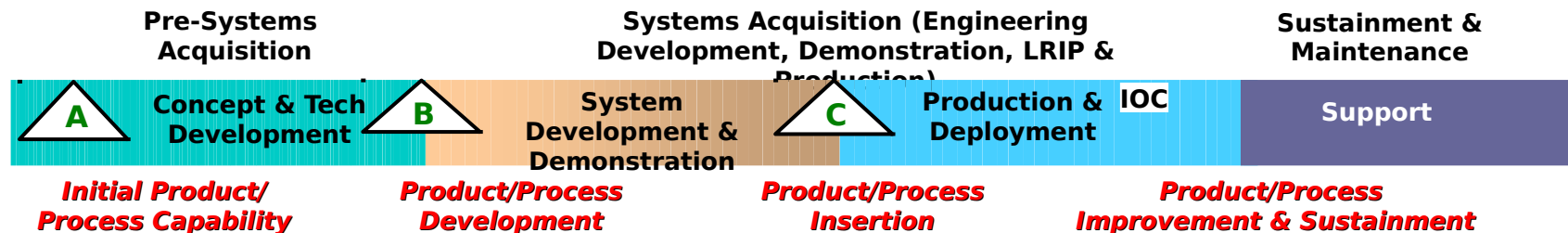
-Produce

-Reliable

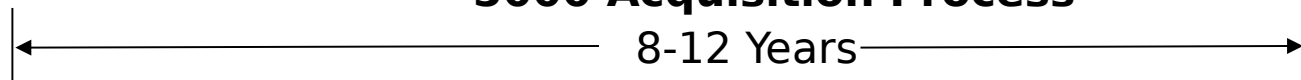
-Support



Reduce Cycle Time



5000 Acquisition Process



ACTD Process

5-7 Years

Dual Use S&T Process

5-7 Years

Spiral Tech Insertion

3-5 Years

Foreign Competitive Testing

2-4 Years





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Acquisition, Technology & Logistics

ACTD Status Summary



- ***Provide joint warfighter capability***
 - ***Transformational technology & operations***
- ***Generate and demonstrate “80% solutions”***
 - ***Aim for fast delivery of hands-on prototypes***
- ***Maintain strong support from Congress***
- ***Keep moving - maintain rapid spiral tech insertions***
- ***Use new transition strengths of OTT and FCT for***
- ***Pursue coalition partnerships***



Fast Forward Solutions For the Joint Warfighter

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